## Release notes for ENDF/B Development n-011\_Na\_022 evaluation



April 26, 2017

## • psyche Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 22. L=0 / STRENGTH FUNCTION IS 1.37144E+00 / STRENGTH FUNCTION 1.37144E+00 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ISOTOPE MASS = 22. L = 0

STRENGTH FUNCTION IS 1.37144E+00

STRENGTH FUNCTION 1.37144E+00

... [1 more lines]

2. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.34000E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.34000E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

3. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

4. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

5. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

6. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

7. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

8. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

9. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

10. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

11. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.34000E-04 / DENSITY 6.84072E+04 SHOULD BE 4.18453E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.34000E-04 DENSITY 6.84072E+04 SHOULD BE 4.18453E+04

12. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.79000E-04 / STRENGTH FUNCTION 2.79000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.79000E-04 STRENGTH FUNCTION 2.79000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [9 more lines]

13. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

14. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

15. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

16. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

17. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

18. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

19. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

20. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

21. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

22. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04 ... [1 more lines]

23. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04

DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

24. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

25. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

26. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

27. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

28. Strength function in URR not in agreement with PSYCHE's expectations  $FILE\ 2\ /\ SECTION\ 151\ /\ ENERGY\ =\ 8.00000E+04.$  STRENGTH FUNCTION

IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

29. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

30. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

31. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 5.57937E+04 SHOULD BE 3.92751E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 5.57937E+04 SHOULD BE 3.92751E+04

32. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04 / STRENGTH FUNCTION 5.58000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04 STRENGTH FUNCTION 5.58000E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

... [1 more lines]

33. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

34. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

35. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

36. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

37. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 5.58000E-04

DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

38. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

39. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

40. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

41. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 5.58000E-04 DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

42. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04 / DENSITY 6.84072E+04 SHOULD BE 2.94563E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 5.58000E-04

DENSITY 6.84072E+04 SHOULD BE 2.94563E+04

43. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

44. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

45. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

46. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

47. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

48. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

49. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 2.78999E-04

DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

50. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

51. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

52. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

53. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

54. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

55. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 2.78999E-04

DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

56. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

57. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 2.78999E-04

DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

58. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

59. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 2.78999E-04

DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

60. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

61. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.78999E-04 / DENSITY 1.02952E+05 SHOULD BE 2.35650E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.78999E-04

DENSITY 1.02952E+05 SHOULD BE 2.35650E+04

62. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.78999E-04 / STRENGTH FUNCTION 2.78999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.78999E-04 STRENGTH FUNCTION 2.78999E-04

LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04

63. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.60000E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.60000E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

64. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

65. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

66. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

67. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 68. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

69. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

70. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

71. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

72. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.60000E-04 / DENSITY 5.89126E+04 SHOULD BE 4.77230E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.60000E-04 DENSITY 5.89126E+04 SHOULD BE 4.77230E+04

73. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 74. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

75. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

76. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

77. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

78. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

79. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 80. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

81. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

82. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 5.57937E+04 SHOULD BE 3.18153E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 5.57937E+04 SHOULD BE 3.18153E+04

83. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

84. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

85. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 86. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

87. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

88. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

89. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

90. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

91. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 92. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 6.84072E+04 SHOULD BE 2.38615E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 6.84072E+04 SHOULD BE 2.38615E+04

93. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

94. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

95. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

96. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

97. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 6.59999E-04

DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

98. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

99. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

100. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 6.59999E-04

DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

101. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 6.59999E-04

DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

102. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04 / DENSITY 1.02952E+05 SHOULD BE 1.90892E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 6.59999E-04

DENSITY 1.02952E+05 SHOULD BE 1.90892E+04

103. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.30000E-04 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.30000E-04 ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 104. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

105. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

106. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

107. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

108. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

109. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 110. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

111. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

112. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 3.30000E-04 / DENSITY 1.85730E+05 SHOULD BE 1.59077E+04 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 3.30000E-04 DENSITY 1.85730E+05 SHOULD BE 1.59077E+04

113. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 102 / THE CALCULATED Q 1.05825E+07 DISSAGREES WITH THE GIVEN Q 1.24200E+07 (0): Iffy Q

FILE 3

SECTION 102

THE CALCULATED Q 1.05825E+07 DISSAGREES WITH THE GIVEN Q 1.24200E+07

114. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 103 / THE CALCULATED Q 1.86011E+06 DISSAGREES WITH THE GIVEN Q 3.62500E+06 (0): Iffy Q

FILE 3

SECTION 103

THE CALCULATED Q 1.86011E+06 DISSAGREES WITH THE GIVEN Q 3.62500E+06

115. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 107 / THE CALCULATED Q 2.93658E+05 DISSAGREES WITH THE GIVEN Q 1.95000E+06 (0): Iffy Q

FILE 3

SECTION 107

THE CALCULATED Q 2.93658E+05 DISSAGREES WITH THE GIVEN Q 1.95000E+06

- linear Errors:
  - 1. Negative cross section found  $\theta$ : Neg. Sig(E)

- recent Warnings:
  - Statistical weight of certain L values were incorrect 0: RRR goof (a)

- fudge-4.0 Warnings:
  - 1. Missing a channel with a particular angular momenta combination resonances / resolved (Error # 1): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L=0, J=1.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=0, J=2.5 and S=2.5 for "capture"
```

2. Potential scattering hasn't converted, you need more L's! resonances / resolved (Error # 2): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=O at E=15000.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections  $crossSectionSum\ label\ 0:\ total\ (Error\ \#\ 0):\ CS\ Sum.$ 

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 11.96%

4. Cross section does not match sum of linked reaction cross sections  $crossSectionSum\ label\ 1:\ (z,n)\ (Error\ \#\ 0):\ CS\ Sum.$ 

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 30.20%

- fudge-4.0 Errors:
  - 1. The spin statistical weights are off, indicating missing channels resonances / resolved /  $MultiLevel\_BreitWigner$  (Error # 0): badSpinStatisticalWeights

WARNING: The spin statical weights for L=0 sums to 0.571428571429, but should sum to 1.0. You have too few char

2. Calculated and tabulated Q values disagree. reaction label 13: n[multiplicity:'2'] + Na21 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11063635.70806885 eV vs -1.0584e7 eV!

3. Calculated and tabulated Q values disagree. reaction label 14: n + H1 + Ne21 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6733673.49848175 eV vs -6.6931e6 eV!

4. Calculated and tabulated Q values disagree. reaction label 16: n + He4 + F18 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8475096.104881287 eV vs -1.0518e7 eV!

5. Calculated and tabulated Q values disagree. reaction label 19:  $H2 + Ne21\_s$  (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4509107.397544861 eV vs -3.8246e6 eV!

## • njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided

## • acelst Warnings:

1. generic warning message 0: Warning

ACELST WARNING - More than one range for MF/MT 6 91 STOP ACELST Completed